



# Automotive Grade Linux Developer BoF Session

***Embedded Linux Conference***

*October 27, 2020*

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# What is AGL?

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*Collaborating to build the car of the future through rapid innovation*

- Open source Linux-based collaborative project
- Hosted at Linux Foundation
- Focused on rapid innovation of vehicle software using the AGL Unified Code Base

# Total of 11 OEMs supporting AGL!

*Accounts for approximately 60% of worldwide annual vehicle shipments*



# AGL Members - Total of 155 companies!

## Platinum



## Gold

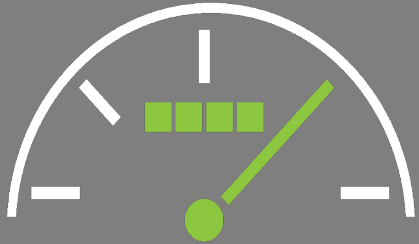


## Silver



## Bronze





AUTOMOTIVE  
GRADE **LINUX**

the only  
organization  
addressing  
all software in  
the car



Infotainment



Instrument  
Cluster



Heads-up  
Display (HUD)



Telematics/  
Connectivity



Functional  
Safety



Advanced Driver  
Assistance Systems  
(ADAS)



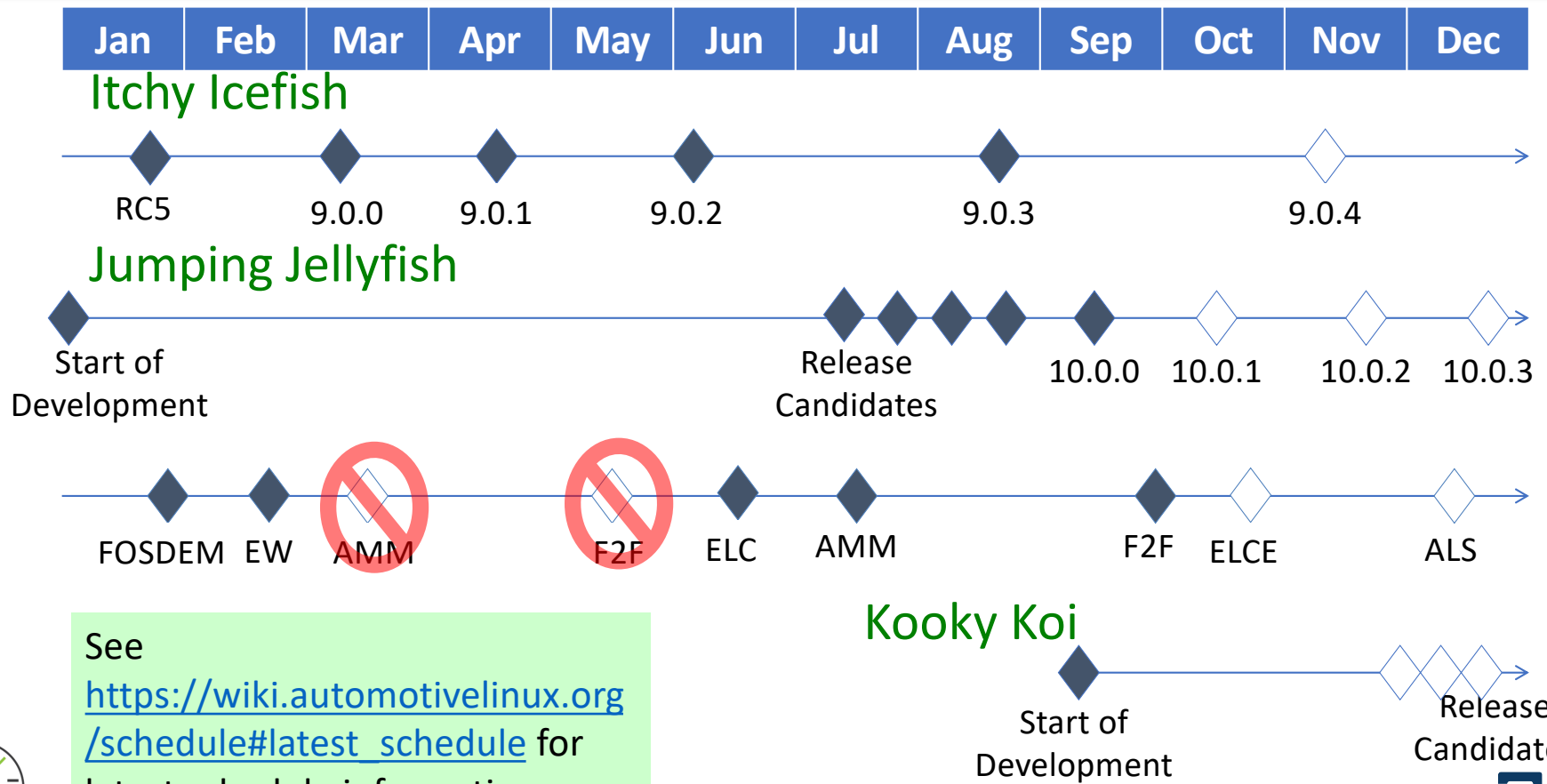
Autonomous Driving

# AGL Unified Code Base

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- Develop a single open source software platform for the entire industry, reducing fragmentation
- Provide at least 70% of the base platform for production projects
- Cultivate an ecosystem of developers, suppliers, and automotive expertise all using a single platform
- Reference hardware and applications available for adaptation

# 2020 AGL Schedule



See

[https://wiki.automotivelinux.org/schedule#latest\\_schedule](https://wiki.automotivelinux.org/schedule#latest_schedule) for latest schedule information

# JUMPING JELLYFISH

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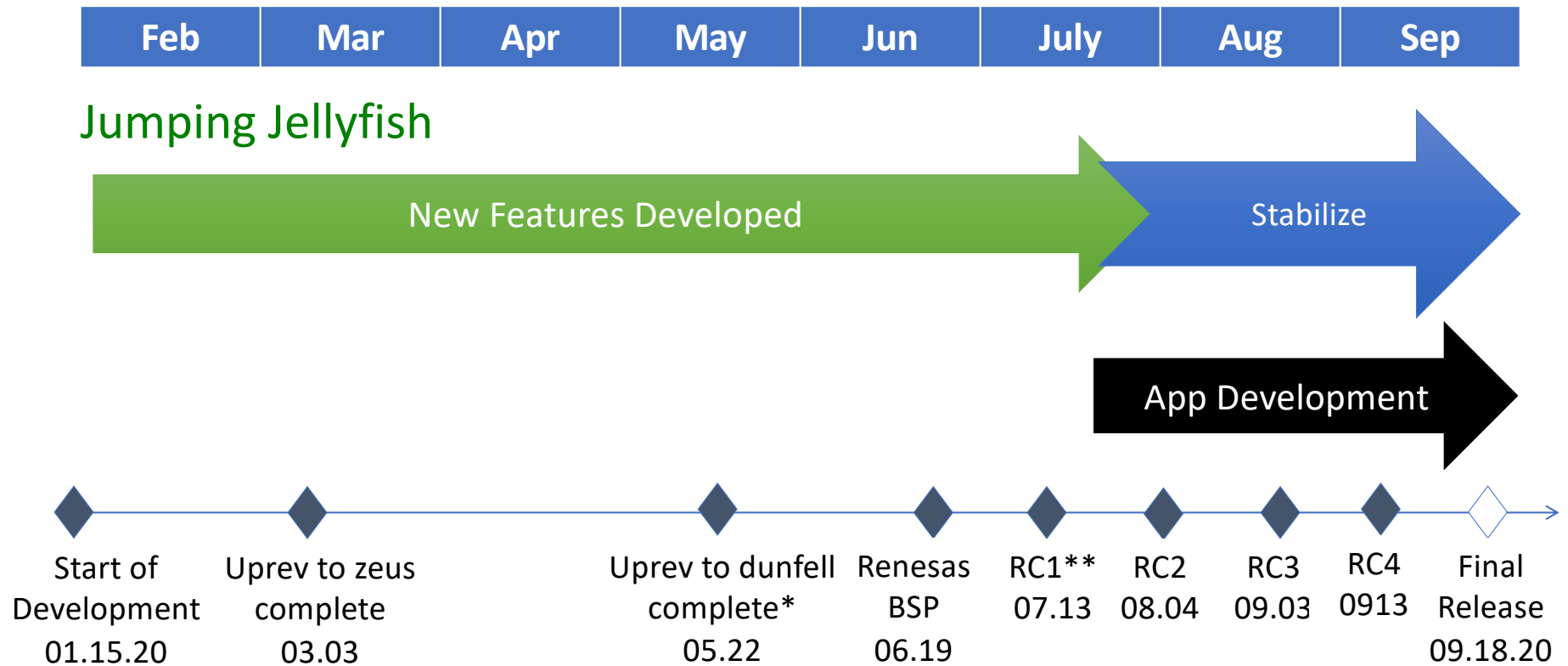


# Jumping Jellyfish

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- Uprev to Yocto 3.1
  - Dunfell branch
  - Long-term Support version for Yocto
- Window Manager, Compositor, and Homescreen matches CES 2020 feature set
- New features driven by gap analysis and member donations
  - Evaluate for completeness and platform usability
  - Conversion to new or extending existing AGL binders
  - Test plans

# Jumping Jellyfish (w/ YP 3.1)

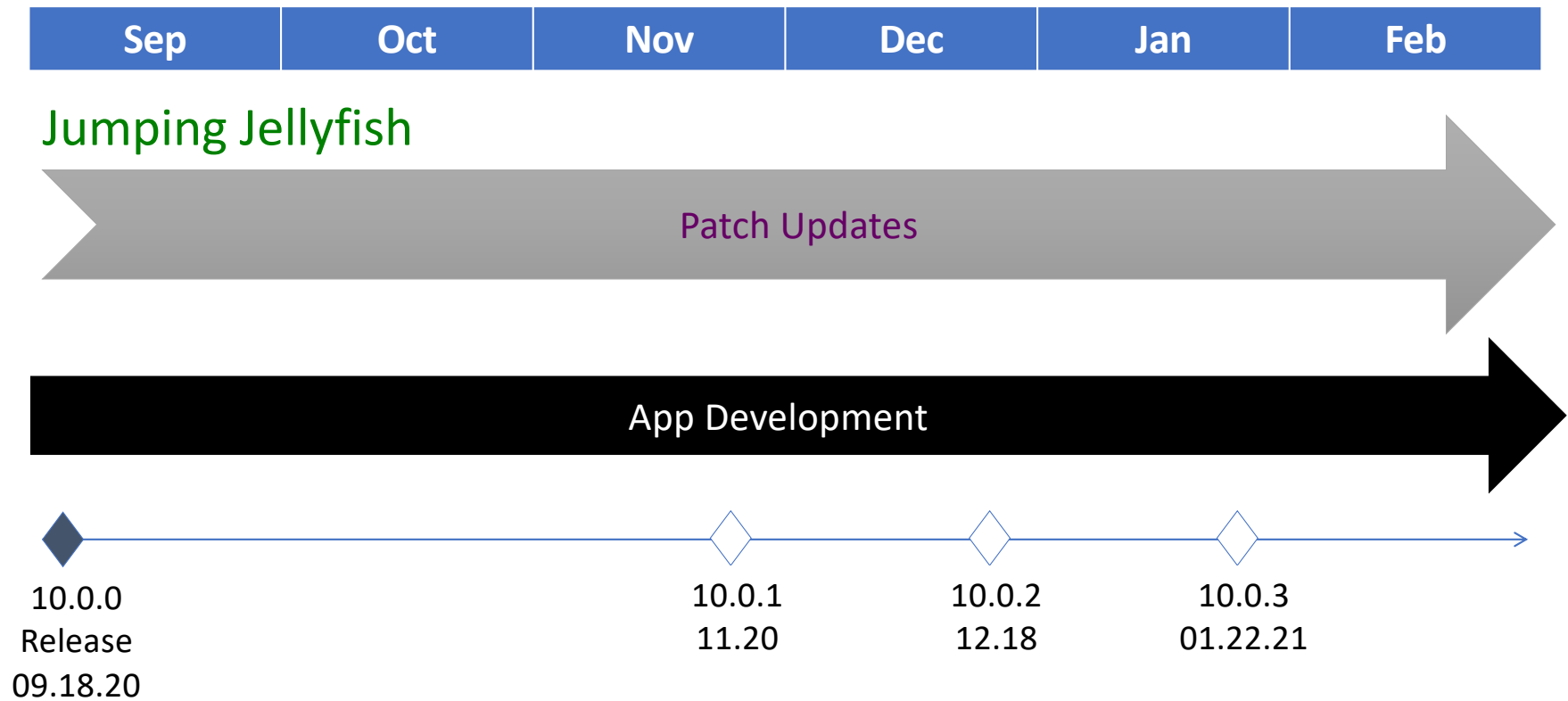


As of 12 October 2020

\*No Renesas BSP

\*\* With Renesas BSP

# Jumping Jellyfish Patch Releases



As of 12 October 2020

# KOOKY KOI

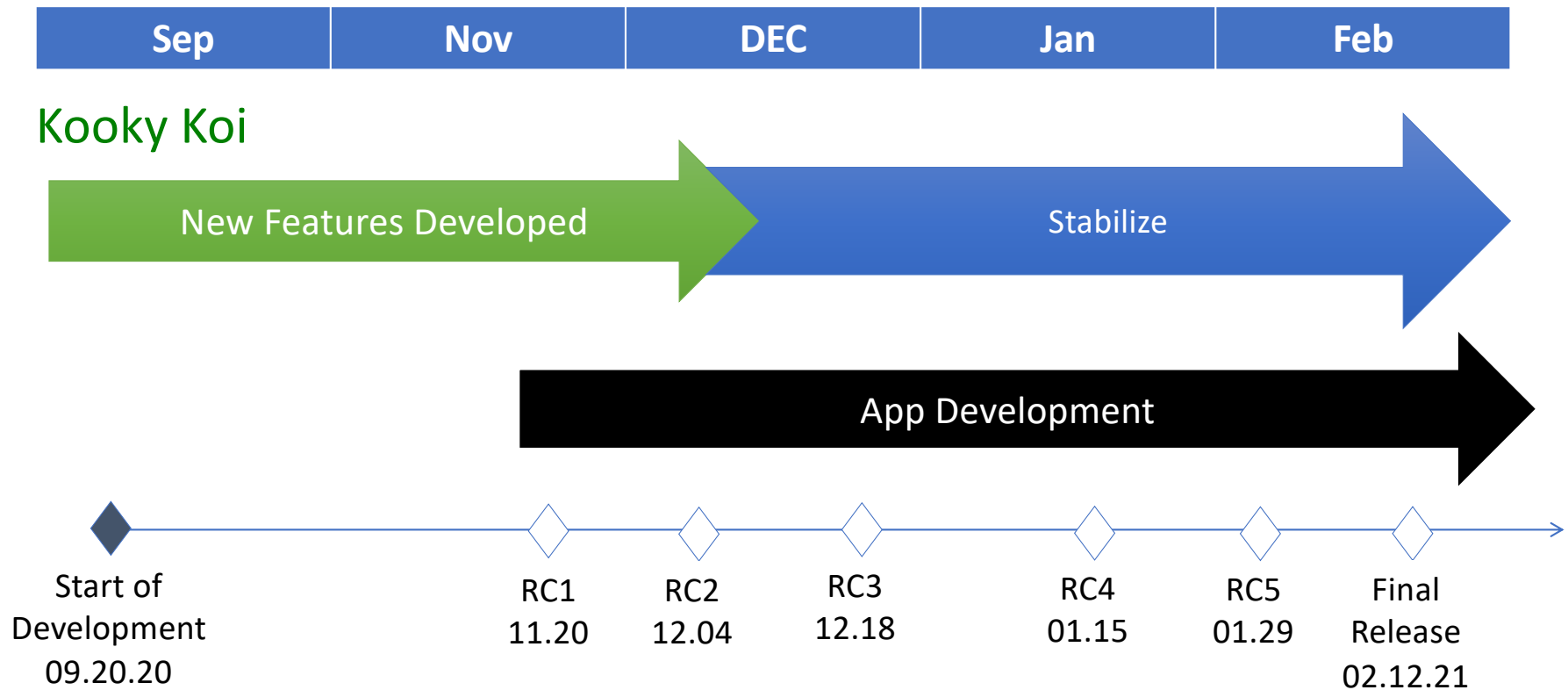
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# Kooky Koi

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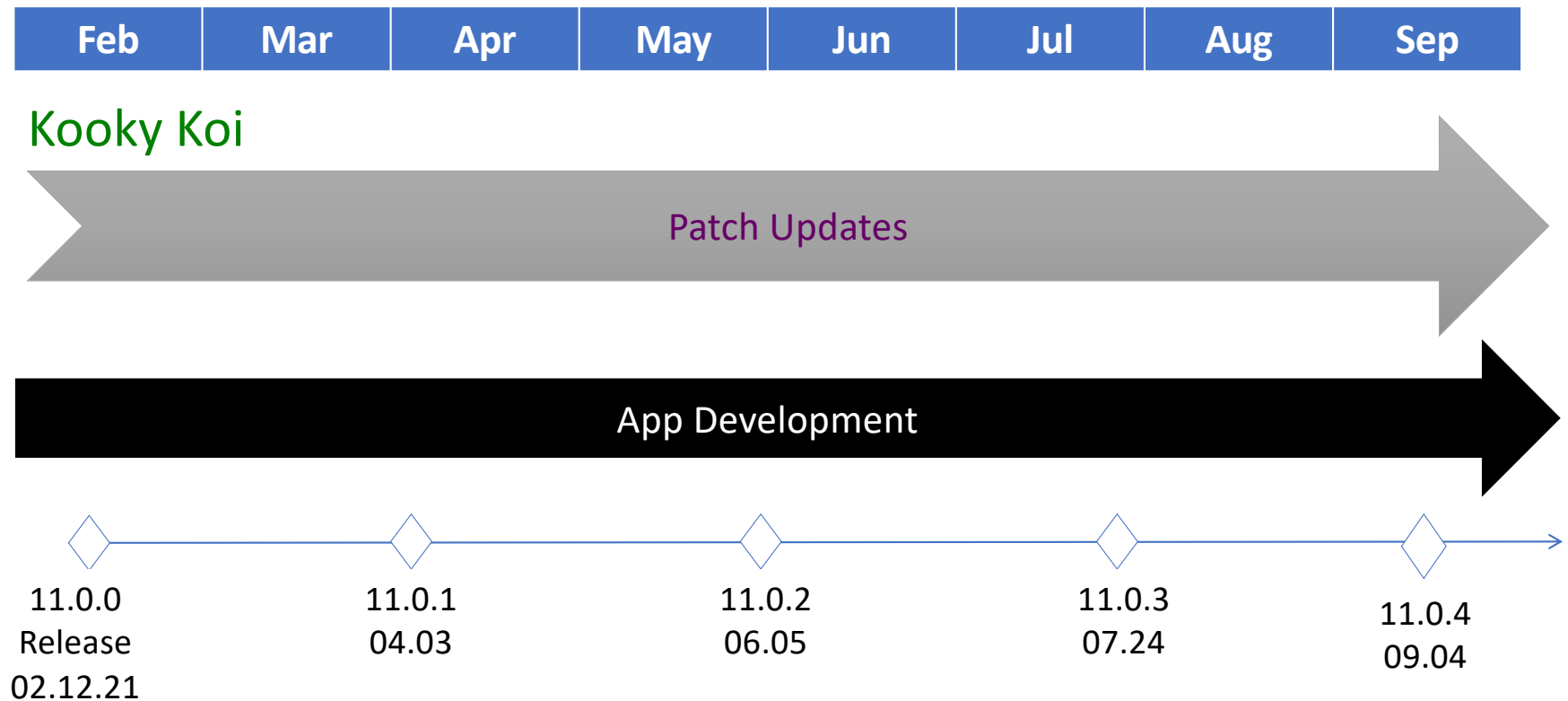
- Continue to with Yocto 3.1
- Instrument Cluster containers
- VirtIO
- Rule based arbitration

# Kooky Koi



As of 12 October 2020

# Kooky Koi Patch Releases



As of 12 October 2020

# Active Expert Groups

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- Application Framework and Security
- Connectivity
- Continuous Integration and Automated Test
- Virtualization
- Reference Hardware System Architecture
- Speech
- Vehicle to Cloud
- Instrument Cluster
- IVI EG forming to focus on adding more production ready features to the IVI profile.



# DEVELOPER RESOURCES

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# AGL Documentation

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- Getting Started

<https://wiki.automotivelinux.org/start/getting-started>

- AGL documentation site

<http://docs.automotivelinux.org/>

- AGL Wiki

<https://wiki.automotivelinux.org/>

- AGL Jira

<https://jira.automotivelinux.org/>

# Get The Code

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- Pre-built binaries and source tar balls available
  - <https://www.automotivelinux.org/software/download>
- Latest Source Code and Build Instructions
  - <https://wiki.automotivelinux.org/agl-distro/source-code>
- Release Notes  
<https://wiki.automotivelinux.org/agl-distro/release-notes>

# AGL Code

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- AGL gerrit

<http://gerrit.automotivelinux.org/>

- AGL git

<https://git.automotivelinux.org/>

# Ask Questions

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- Weekly Developer Call on Tuesdays

<https://wiki.automotivelinux.org/dev-call-info>

- IRC channel #automotive on freenode.net

Discussion about open source software for vehicles. No help for mechanical issues should be accepted from anyone on this channel.

- Dev Community Mail List

<https://lists.automotivelinux.org/g/agl-dev-community>

# 2019 F2F Workshop Update

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- Mar 5-7 – [Tokyo](#) AGL AMM
- May 7-9 – [A Coruña, Spain](#) (Igalia)
- July 16 – Tokyo - Day before Automotive Linux Summit
- Sep 24-26 – [Berlin](#) (VW/ Carmeq)
- October 21 - 24 – [Monte Carlo](#) – AGL Fall AMM
- Nov 11 – 13 – [Karlsruhe](#) and [Yokohama](#) – CES Integration Session #1
- Dec 10 – 12 – [San Francisco](#) – CES Integration Session #2
- Jan 7-10 : CES 2020

# 2020 F2F Workshop Update

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- Mar 17-19 – [Hawaii](#) AGL AMM – **Canceled**
- May 12 - 14 - [Berlin](#) (Mercedes Mbition) - **Canceled**
- July 15-17 – [Berlin AMM](#) – [Virtual F2F](#)
- Oct 6 – 8 – [Virtual F2F](#)
- Dec 7- 9 – [Virtual F2F](#)



Q & A





THANK YOU